Fall 2020	ENG 5300	\mathbf{Quiz}	1	Ferris Ki	mmil
You must show all work to receive full credit. All work is to be your own.				<mark>09/28/2020</mark>	
This is a closed bo	oks and notes test. Be org	ganized. T	otal points: 20	19:44-	· 19:57
1 °10 1 1 inc Int	arral Mark dana by a far	Calcula	to (F (n) d n for	the following data	If F is a

§10.1 Line Integral. Work done by a force. Calculate ∫_C F(r) · dr for the following data. If F is a force, this gives the work done in the displacement along C. (Show the details.)
F = [x, -z, 2y], from (1, 2, 3) straight to (3, 2, 1).

2. §10.2 Show that the form under the integral sign is exact in space and evaluate the integral. Show the details of your work. 10 points

$$\int_{(0,0,\pi)}^{(2,\frac{1}{2},\frac{\pi}{2})} e^{xy} (y \sin z \, dx + x \sin z \, dy + \cos z \, dz)$$